

ABSTRACT

A vibration exciter for soil compacting devices, e.g., for a vibration plate, comprises unbalanced shafts. These unbalanced shafts are parallel or coaxial to one another, can be driven in opposite directions with the same rotational speed, and each supports a stationary unbalanced mass and an unbalanced mass that can rotatably move relative to the unbalanced shaft. The relative position of a respective moving unbalanced mass with regard to the unbalanced shaft supporting the same can be adjusted by an adjusting device so that the centrifugal forces produced by the unbalanced masses during the rotation of the unbalanced shafts are entirely canceled out in every position of rotation of the unbalanced shafts. This makes it possible, among other things, to effect a change in the relative position so that the magnitude of a total centrifugal force resulting from the unbalanced masses is proportional to an advancing speed of the soil compacting device.